

AMENDED CLAIMS

Therefore, having thus described the invention, at least the following is claimed:

1. (Currently amended) A telemetry digital communication system comprising:

- at least one remote data collection device;
- a central data acquisition system;
- at least one remote telemetry device coupled to at least one remote data collection device, the remote telemetry device being adapted for ~~capable of~~ transmitting and receiving digital data between the remote data collection device and the central data acquisition system, wherein the remote telemetry device is assigned a second identification code which can be changed; and
- wherein the a-central data acquisition system that is assigned a first identification code, the first identification code being associated with the remote data collection device for the central data acquisition system to identify and communicate with the remote data collection device; and
- an access translation device coupled to the central data acquisition system, wherein the access translation device receives the first identification code assigned to the central data acquisition system and the second identification code assigned to the remote telemetry device, the access translation device being adapted for ~~capable of~~ translating one of (i) the first identification code into the second identification code and (ii) the second identification code into the first identification code, that enables the access translation device to facilitate communication between the remote data collection device and the central data acquisition system even when the second identification code of the remote telemetry device has changed.

2. (Currently amended) The system as defined in claim 1, wherein the access translation device is further adapted for ~~capable of~~ tracking a new second identification code received from the remote telemetry device that enables the access translation device to facilitate communication between the central data acquisition system and the remote data collection device.

1 3. (Currently amended) The system as defined in claim 1, further comprising
2 a service provider that is adapted for ~~capable of~~ assigning the second identification
3 code to the remote telemetry device, the remote telemetry device being adapted for
4 ~~capable of~~ sending the second identification code to the access translation device,
5 which can track the frequently changing second identification codes sent to the
6 remote telemetry device by the service provider.

1 4. (Original) The system as defined in claim 1, wherein the first and second
2 identification codes are each of one of an ID number, phone number, and Internet
3 Protocol (IP) address.

1 5. (Original) The system as defined in claim 1, wherein the first identification
2 code is fixed in the central data acquisition system and is not changed even when
3 the remote telemetry device is assigned with a new second identification code.

1 6. (Currently amended) The system as defined in claim 1, wherein the remote
2 telemetry device is adapted for ~~capable of~~ sending a user datagram protocol and
3 Internet protocol (UDP/IP) datagram to the access translation device, the UDP/IP
4 datagram containing the second identification codes, the second identification code
5 including a fixed mobile identification number (MIN/MISDN) and a dynamic IP
6 address, the access translation device being adapted for ~~capable of~~ using the
7 UDP/IP datagram to facilitate tracking the frequently changing dynamic IP address
8 in the second identification code.

1 7. (Original) The system as defined in claim 1, wherein the remote telemetry
2 device periodically transmits its current second identification code to the access
3 translation device to update the access translation device.

1 8. (Original) The system as defined in claim 1, wherein the access translation
2 device includes a look-up table that associates the first identification code assigned
3 to the central data acquisition system to the second identification code assigned to
4 the remote telemetry device.

1 9. (Currently amended) The system as defined in claim 1, wherein the system
2 is adapted for ~~capable of~~ operating as a cellular packet data service, a short
3 messaging service (SMS), and point-to-point messaging service (SMP-P), the
4 cellular packet data service is one of 1XRTT/CDMA, CDMA2000, EDGE/GSM
5 and GPRS/GSM.

1 10. (Currently amended) The system as defined in claim 1, wherein the access
2 translation device comprises:

3 at least one port, the port being adapted for ~~capable of~~ receiving and
4 transmitting identification codes of the central data acquisition system and the
5 remote telemetry device; and

6 a processing device being adapted for ~~capable of~~ tracking changes in the
7 second identification code assigned to the remote telemetry device and translating
8 the first identification code into the second identification code assigned to the
9 remote telemetry device.

1 11. (Currently amended) The system as defined in claim 10, wherein the port is
2 one of at least one serial port and at least one Ethernet port, the serial port being
3 adapted for of receiving and transmitting identification codes of the central data
4 acquisition system and the remote telemetry device via a serial port or serial port
5 with AT modem protocol, and the Ethernet port being adapted for ~~capable of~~
6 receiving and transmitting identification codes of the central data acquisition
7 system and the remote telemetry device via a cellular network.

1 12. (Original) The system as defined in claim 3, further comprising a cellular
2 carrier network facility and mobile switching center (MSC).

1 13. (Original) The system as defined in claim 12, wherein the cellular carrier
2 network facility and mobile switching center further comprises a cellular carrier e-
3 mail gateway and short message switching center.

1 14. (Original) The system as defined in claim 1, wherein the access translation
2 device includes a translation identification code, and the remote telemetry device is
3 programmed with the translation identification code to facilitate communication
4 with the access translation device.

1 15. (Original) The system as defined in claim 14, wherein the translation
2 identification code includes a global fixed IP address.

1 16. (Original) The system as defined in claim 15, further comprising a local
2 area network (LAN) that includes a LAN identification code, the LAN
3 identification code being linked to the translation device identification code, the
4 remote telemetry device being programmed with the LAN identification code to
5 facilitate communication with the access translation device.

1 17. (Original) The system as defined in claim 16, wherein the LAN
2 identification code includes a LAN IP address and assigned port numbers.
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1 18. (Currently amended) An access translation device comprising:
2 at least one port, the port being adapted for ~~capable of~~ receiving a first
3 identification code from a central data acquisition system and a second
4 identification code from a remote telemetry device; and
5 a processing device being adapted for ~~capable of~~ translating one of (i) the
6 first identification code into the second identification code and (ii) the second
7 identification code into the first identification code that enables the access
8 translation device to facilitate communication between the central data acquisition
9 system that contains the first identification code and a remote data collection
10 device that is coupled to the remote telemetry device that can have changing
11 second identification codes.

1 19. (Currently amended) The device as defined in claim 18, wherein the
2 processing device is adapted for ~~capable of~~ tracking the second identification code
3 that the remote telemetry device sends to the access translation device.

1 20. (Original) The device as defined in claim 18, wherein the first
2 identification code is fixed in the central data acquisition system and does not
3 change even when the second identification code of the remote telemetry device
4 changes.

1 21. (Original) The device as defined in claim 18, wherein the first and second
2 identification codes are one of an identification number (ID), phone number, and
3 Internet protocol (IP) address.

1 22. (Currently amended) The device as defined in claim 18, wherein the port is
2 one of at least one serial port and at least one Ethernet port, the serial port being
3 adapted for ~~capable of~~ receiving and transmitting identification codes of the central
4 data acquisition system and the remote telemetry device via modem protocol, and
5 the Ethernet port being adapted for of receiving and transmitting identification
6 codes of the central data acquisition system and the remote data collection device
7 via a cellular network.

1 23. (Currently amended) The device as defined in claim 22, wherein the
2 Ethernet port is adapted for ~~capable of~~ receiving a user datagram protocol and
3 Internet protocol (UDP/IP) datagram, the UDP/IP datagram containing the second
4 identification codes, the second identification code includes a mobile identification
5 number and a dynamic IP address, the access translation device being adapted for
6 ~~capable of~~ using the UDP/IP datagram to facilitate tracking a changing second
7 identification code.

1 24. (Original) The device as defined in claim 18, further comprising a look-up
2 table that associates the first identification code assigned to the central data
3 acquisition system to the second identification code assigned the remote telemetry
4 device.

1 25. (Currently amended) The device as defined in claim 18, wherein the device
2 is adapted for ~~capable of~~ operating as a cellular packet data service, short
3 messaging service (SMS), and a point-to-point messaging service (SMP-P),
4 wherein the cellular packet data service is one of 1XRTT/CDMA, EDGE/GSM and
5 GPRS/GSM.

1 26. (Original) The device as defined in claim 18, wherein the access translation
2 device includes a translation device identification code, the remote telemetry
3 device being programmed with the translation identification code to facilitate
4 communication with the access translation device.

1 27. (Original) The device as defined in claim 26, wherein the translation
2 identification code includes a global fixed IP address.

1 28. (Original) The device as defined in claim 26, wherein the translation
2 identification code is linked to a LAN identification code of a local area network
3 (LAN) to facilitate communication between the remote data collection device and
4 the access translation device.

1 29. (Original) The device as defined in claim 28, wherein the LAN
2 identification code includes a global LAN IP address and assigned port numbers.

1 30. (Original) A method for facilitating communication via an access
2 translation device between a central data acquisition system that is assigned a first
3 identification code and a remote telemetry device that is assigned a second
4 identification code, the method comprising the steps of:

5 the access translation device receiving the first identification code from the
6 central data acquisition system;

7 the access translation device receiving the second identification code from
8 the remote telemetry device;

9 associating the first identification code with the second identification code;
10 and

11 the access translation device translating one of (i) the first identification
12 code into the second identification code and (ii) the second identification code into
13 the first identification code that enables communication between the central data
14 acquisition system and a remote data collection device despite the fact the central
15 data acquisition system and remote telemetry device have two different
16 identification codes.

1 31. (Original) The method as defined in claim 30, wherein receiving the first
2 identification code for the central data acquisition system further comprises the use
3 of one of a modem protocol and a LAN network.

1 32. (Original) The method as defined in claim 30, wherein receiving the
2 second identification code from the remote data collection device further
3 comprising the use of one of a LAN network, cellular network, and Internet.

1 33. (Original) The method as defined in claim 30, wherein receiving the first
2 identification code and receiving the second identification code comprising
3 receiving one of an ID number, phone number, and IP address for each code.

1 34. (Original) The method as defined in claim 30, further comprising tracking
2 a new second identification code assigned to the remote telemetry device, the
3 remote telemetry device sending the new second identification code to the access
4 translation device, wherein the tracking of the new second identification code
5 enables the access translation device to translate one of (i) the first identification
6 code into the new second identification code and (ii) the second identification code
7 into the new first identification code, such that the central data acquisition system
8 can communicate with the remote data collection device despite the fact that the
9 remote telemetry device has a new second identification code.

1 35. (Original) The method as defined in claim 30, wherein receiving the
2 second identification code from the remote telemetry device further comprising
3 receiving a user datagram protocol and internet protocol (UDP/IP) datagram in
4 which the UDP/IP datagram contains the second identification code to facilitate
5 tracking a frequently changing second identification code of the remote telemetry
6 device.

1 36. (Currently amended) The method as defined in claim 30, wherein
2 associating the first identification code is accomplished with the second
3 identification code in a look-up table.

1 37. (Currently amended) A remote telemetry device comprising:
2 a transceiver that receives a second IP address ~~identification code~~, the
3 second IP address ~~identification code~~ being capable of being changed to a new
4 second IP address ~~identification code~~; and
5 a processing device coupled to the transceiver, the processing device being
6 adopted for ~~capable of~~ detecting the new second IP address ~~identification code~~,
7 wherein said transceiver transmits the new second IP address ~~identification code~~
8 via a cellular network. Note: These changes may not be necessary if we incorporate
9 the proposed definitions in Claim 6.

1 38. (Currently amended) ~~The device as claimed in claim 37, further~~
2 ~~comprising, A remote telemetry device comprising:~~

3 a transceiver that receives a second identification code, the second
4 identification code being adapted for being changed to a new second identification
5 code;

6 a processing device coupled to the transceiver, the processing device being
7 adapted for detecting the new second identification code, wherein said transceiver
8 transmits the new second identification code via a cellular network; and

9 a memory that stores one of the second identification code, a translation
10 device identification code, and a LAN identification code, the second identification
11 code enabling the remote telemetry device to be identified and to establish
12 communication with an access translation device, the translation identification code
13 or the LAN identification code enabling the remote telemetry device to identify the
14 access translation device and to establish communication with the access
15 translation device.

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1 39. (Currently amended) ~~The device as defined in claim 37, A remote~~
2 ~~telemetry device comprising:~~

3 a transceiver that receives a second identification code, the second
4 identification code being capable of being changed to a new second identification
5 code; and

6 a processing device coupled to the transceiver, the processing device being
7 adopted for detecting the new second identification code, wherein said transceiver
8 transmits the new second identification code via a cellular network wherein the
9 transceiver transmits one of the translation identification code, the LAN
10 identification code and the second identification code, wherein the translation
11 identification code or the LAN identification code can be used to identify the
12 access translation device to establish communication with the remote telemetry
13 device, wherein the second identification code can be used to identify the remote
14 telemetry device to establish communication with the access translation device.

1 40. (Original) The device as defined in claim 39, wherein the transceiver
2 transmits the second identification code to the access translation device via a
3 cellular network so that the access translation device can track the changing second
4 identification code of the remote telemetry device.
5

1 41. (Currently amended) The device as defined in claim 37, further comprising
2 a connecting terminal that is coupled to the processing device and a remote data
3 collection device; the connecting terminal being adapted for ~~capable of~~ facilitating
4 communication between the remote data collection device and the remote telemetry
5 device.

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2 42. (Original) The device as defined in claim 41, wherein the connecting
3 terminal is one of an Ethernet, serial, and modem connection.

1 43. (Currently amended) The device as defined in claim 42, wherein the
2 processing device is ~~capable of~~ adapted for receiving data from the remote data
3 collection device and instructing the transceiver to send the data to a ~~central~~-data
4 acquisition system.

1 44. (Currently amended) A method for operating a remote telemetry device,
2 the method comprising the steps of:

3 receiving a second IP address ~~identification code~~;
4 determining whether the second IP address ~~identification code~~ is changed;
5 storing the second IP address ~~identification code~~; and
6 transmitting the second IP address ~~identification code~~ via a cellular network.

1 45. (Currently amended) The method as defined in claim 44, further comprising
2 communicating with a remote data collection device.

1 46. (Original) The method as defined in claim 44, further comprising receiving
2 data from a remote data collection device and instructing the transceiver to send the
3 data to a central data acquisition system.